Table 9. Association of datasets; pesticides with high blood and urine levels and pesticides frequently detected in indoor dust and residential yard soil samples.

Pesticide/Metabolite	Blood	Urine	Indoor Dust		Yard Soils		Ag Database	Rank in Top 16 Most Frequently Found Food Residues*	Other Information
			Number of Detections (80 Samples)	Exceed Screening Values	Number of Detections (80 Samples)	Exceed Screening Values			
Chlorpyrifos	NA†	H‡	21	No	3	No	No	6	Former home termiticide with wide range of uses in the home or for agricultural purposes for insect control
Diethylthiophosphate (metabolite)	NA	H							
Chlorpyrifos		H	21	No	3	No	No		
Diazinon		—§	65	No	19	No	1983		Used in home gardens and farms for insect control
Disulfoton			NAD**	NAD	NAD	NAD	1994		Restricted use pesticide
parathion (ethyl)			0	No	0	No	1994		Restricted use pesticide
2,4,5-trichlorophenol (metabolite)		H							
2,4,6-trichlorophenol (metabolite)	NA	H							
beta-hexachlorocyclohexane			0	No	3	NA	NA		Isomer and contaminant in lindane
gamma-hexachlorocyclohexane (lindane)			0	No	4	NA	NA	11	Present in medication shampoo, persistent organochloride pesticide subject to long range transport from international use
o-phenylphenol	NA	H	NAD	NA	NAD	NA	No		Fungicide, germicide, and household disinfectant
DDE (metabolite)	H		0	No	23	No	No		
DDT	—		0	No	10	No	No	1	Banned in U.S. in 1972. Still used internationally

* Pesticide residues found in a Total Diet Study in 2000 of 1035 items (FDA 2002)

† Not applicable.

‡ The lower boundary of the Churchill County confidence interval (CI) was higher than the upper boundary of the CI for the U.S. level or, b) more than 10% of the Churchill County participants had a value above the U.S. 95th percentile.

§ The Churchill County geometric mean is consistent with national estimates.

** Not analyzed.

Pesticide/Metabolite	Blood	Urine	Indoor Dust		Yard Soils		Ag Database	Rank in Top 16 Most Frequently Found Food Residues*	Other Information
			Number of Detections (80 Samples)	Exceed Screening Values	Number of Detections (80 Samples)	Exceed Screening Values			
DDD			0	No	10	No	No		Banned in U.S. in 1972.
2-napthol (metabolite)	NA	H							Used in dyes, pigments, pharmaceuticals, perfumes, and antiseptics
Naphthalene			NAD	NA	NAD	NA	No		
1-napthol (metabolite)	NA	L††	26	NS‡‡	0	NS			
Carbaryl (Sevin)			NAD	NA	3	No	1984		Used in home gardens and farms for insect control
DEET	NA	NA	66	NS	15	NS	No		Personal mosquito control
Oxychlordane	—								
cis-chlordane			0	No	21	No	No		Banned in U.S. in 1988
gamma-chlordane			0	No	24	NS	No		Banned in U.S. in 1988
Heptachlor epoxide	—		0	No	17	No	No		Banned in U.S. in 1988

†† The upper boundary of the Churchill County CI was below the lower boundary of the CI for the U.S. level and b) less then 10% of the Churchill County participants had a value above the U.S. 95th percentile.

‡‡ No screening value available.

Table 10. Organophosphate Pesticide Metabolites[12]

Pesticide (CAS number)	Dimethyl-phosphate (813-79-5)	Dimethylthio-phosphate (1112-38-5)	Dimethyldithio-phosphate (756-80-9)	Diethyl-phosphate (598-02-7)	Diethylthio-phosphate (2465-65-8)	Diethyldithio-phosphate (298-06-6)
Azinphos methyl	•	•	•			
Chlorethoxyphos				•	•	
Chlorpyrifos				•	•	
Chlorpyrifos methyl	•	•				
Coumaphos				•	•	
Dichlorvos (DDVP)	•					
Diazinon				•	•	
Dicrotophos	•					
Dimethoate	•	•	•			
Disulfoton				•	•	•
Ethion				•	•	•
Fenitrothion	•	•				
Fenthion	•	•				
Isazaphos-methyl	•	•				
Malathion	•	•	•			
Methidathion	•	•	•			
Methyl parathion	•	•				
Naled	•					
Oxydemeton-methyl	•	•				
Parathion				•	•	
Phorate				•	•	•
Phosmet	•	•	•			
Pirimiphos-methyl	•	•				
Sulfotepp				•	•	
Temephos	•	•				
Terbufos				•	•	•
Tetrachlorviphos	•					
Trichlorfon	•					

12 Second National Report on Human Exposure to Environmental Chemicals, January 31, 2003.